Realistic Stereo-Mate AM/FM Headset Radio
(120-0104) Features Faxback Doc. # 18171

This new Stereo-Mate AM/FM Headset Radio is compact and lightweight, and it provides full-bodied sound with amazing reception. The twin speakers surround the listener with stereo sound, and hands-free operation lets the operator listen to sports events, music, or news anywhere they go, without disturbing others in the immediate vicinity.

Built-In FM-AFC Circuit - receives FM stations clearly without drifting.

Low-Power-Consuming Circuitry - operates up to 10 hours on two AAA batteries.

Built-In AM Loopstick and FM Wire-Loop Antenna - provide excellent reception in most areas.

Foam-Padded Ear Cushions - provide comfortable listening and block out noise.

Balance Control - lets the user control the stereo effect.

Hearing Comfort and Your Health

Do not listen at extremely high volume levels. Extended, high-volume listening can lead to permanent hearing loss.

Traffic Safety

Do not wear headphones while operating a motor vehicle or riding a vehicle. This can create a traffic hazard and is illegal in some areas.

Even though some headphones are designed to let a user hear outside sounds when listening at normal volume levels, they still present a traffic hazard.

BATTERY INSTALLATION

1. Press the battery compartment cover and slide it out as indicated by the arrow.

2. Install two AAA batteries (such as Cat.No.23-0584 or 23-0555), observing proper polarity (+ and -).

3. Slide the compartment cover back on and snap it into place.

1. Turn VOLUME to its lowest position.

2. Slide ON/OFF to ON.

3. Slide AM/FM to the desired band.

4. Tune to a station using the TUNING control.

5. Adjust VOLUME to a comfortable level.

6. Adjust BALANCE for the desired stereo effect.

7. When finished with using the radio, set ON/OFF to OFF.

NOTE: Reception might vary when in motion because of the built-in antennas.

This unit has an automatic FM stereo circuit. When tuning to a stereo broadcast, the tuning circuit automatically switches to stereo reception. If the signal strength weakens during stereo reception, the unit automatically switches to the monaural mode for improved sound quality.

ADJUSTING THE HEADBAND

Adjust the radio's headband for a custom fit.

Firmly grasp the headband's center section and slide each side in or out to obtain the proper fit.

Realistic Stereo-Mate AM/FM Headset Radio
(120-0104) Care and Maintenance Faxback Doc. # 18170

Your Stereo-Mate AM/FM Headset Radio is an example of superior design and craftsmanship. The following suggestions will help you care for the radio and enjoy it years.

Keep the radio dry. If it gets wet, wipe it dry immediately. Liquids contain minerals that can corrode electronic circuits.

Use only fresh batteries of the recommended size and type. Always remove old or weak batteries. They can leak chemicals that destroy electronic circuits.

Handle the radio gently and carefully. Dropping it can damage circuit boards and cases and can cause the product to work improperly.

Use and store the radio only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.

Keep the radio away from dust and dirt, which can cause premature wear of parts.

Wipe the radio with a damp cloth occasionally to keep it looking new. do not use harsh chemicals, cleaning solvents, or strong detergents to clean the radio.

Modifying or tampering with the radio's internal components can cause a malfunction and invalidate the radio's warranty and void the FCC authorization to operate it. If the radio is not performing as it should, take it to your local Radio Shack store for assistance.

Realistic Stereo-Mate AM/FM Headset Radio
(120-0104) Specifications Faxback Doc. # 18173

General

Power Supply Voltage:.....3V (2-"AAA" or "IEC R-03" Battery)
Load Impedance:.....32 Ohms
Output:..... 5 mW
Modulation:.....AM:400 Hz, 30%
FM:400Hz, 75kHz Deviation
RF Input:.....AM:Loop Antenna
FM:Direct Input from 75-Ohm Impedance Source

AM Band

Item	Freq. (kHz)	Unit	Nominal	Limit
Frequency Coverage	Low end	kHz	515	520
	High end	kHz	1750	1705
Maximum Sensitivity	600	uV/m	500	1000
	1000	uV/m	500	1000
	1400	uV/m	500	1000
Sensitivity at 20 dB S/N	600	uV/m	1000	1500
	1000	uV/m	1000	1500
	1400	uV/m	1000	1500
Signal-to-noise Ratio at 5 mV/m	1000	dB	35	30
IF Rejection	600	dB	60	50
Image Rejection	1400	dB	30	20
Bandwidth, -6 dB	1000	kHz		4-10
ACA 990 kHz/1010 kHz	1000	dB	24	18
Maximum Output Power	1000	mW	30	25
10% THD Output Power	1000	mW	25	20
AGC FOM at 100mV/m	1000	dB	45	40
Whistle Modulation				
2 x IF	910	%	10	15
3 x IF	1365	%	10	15
Frequency Response -6 dB	1000	Hz	50	100
			2000	1800
Oscillator Drop-Out Voltage	1000	V	1.8	2
Current Drain	1000	mA	15	25

Noise Level at Volume Minimum		mV	0.3	-

FM Band

Item	Freq. (MHz)	Unit	Nominal	Limit
Frequency Coverage	Low end	MHz	87.0	88
	High end	MHz	109	108
30 dB Quieting Sensitivity	90	uV	10	20
	98	uV	10	20
	106	uV	10	20
-3 dB Limiting Sensitivity	98	uV	3.16	6.3
Signal-to-Noise Ratio at 1 mV Input	98	dB	60	50
IF Rejection	90	dB	70	50
Image Rejection	106	dB	25	20
AFC Holding Range	98	kHz	300-700	-
Capture Ratio	98	kHz	6	10
Alternate Channel Selectivity	98	dB	20	15
Overload	98	%	1	7
Stereo Beacon Sensitivity	98	uV	10	13
Stereo Separation 100 Hz	98	dB	20	15
1 kHz	98	dB	25	20
10 kHz	98	dB	20	15
Pilot Modulation Sensitivity	98	%	5	7
Maximum Output Power	98	mW	30	25
10% THD Power Output	98	mW	25	20

NOTE: Nominal specs represent the design specs. All units should be able to approximate these--some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; in no case should a unit fail to meet limit specs.

(cd 10/17/95)
LN/03/04